FIG. 1

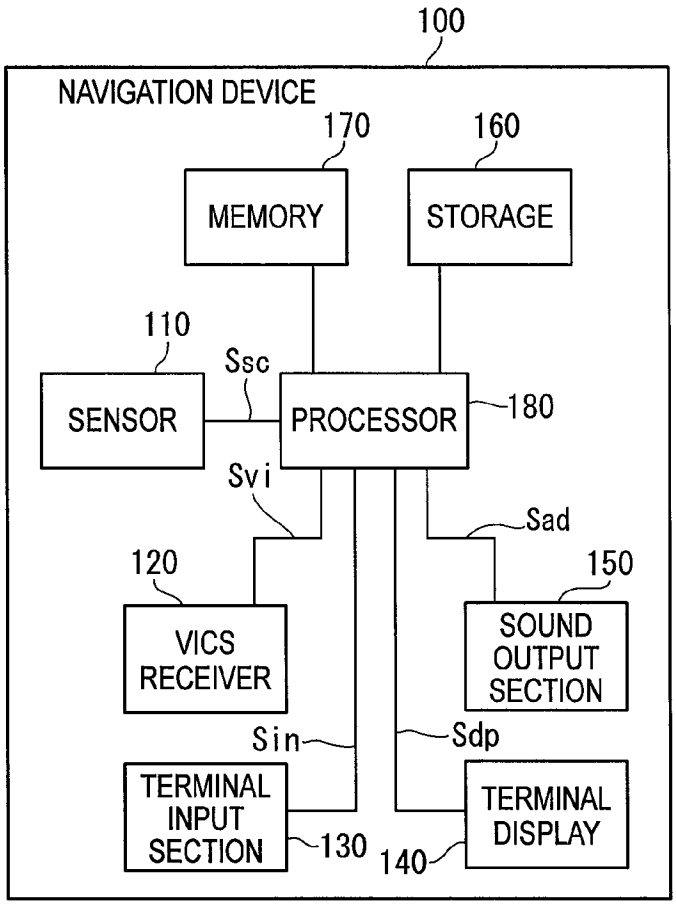

100
NAVIGATION DEVICE
170
160
MEMORY
STORAGE
110
Ssc
SENSOR
PROCESSOR
180
Svi
Sad
120
150
VICS RECEIVER
SOUND OUTPUT SECTION
Sin
Sdp
TERMINAL INPUT SECTION
130
TERMINAL DISPLAY
140

FIG. 2

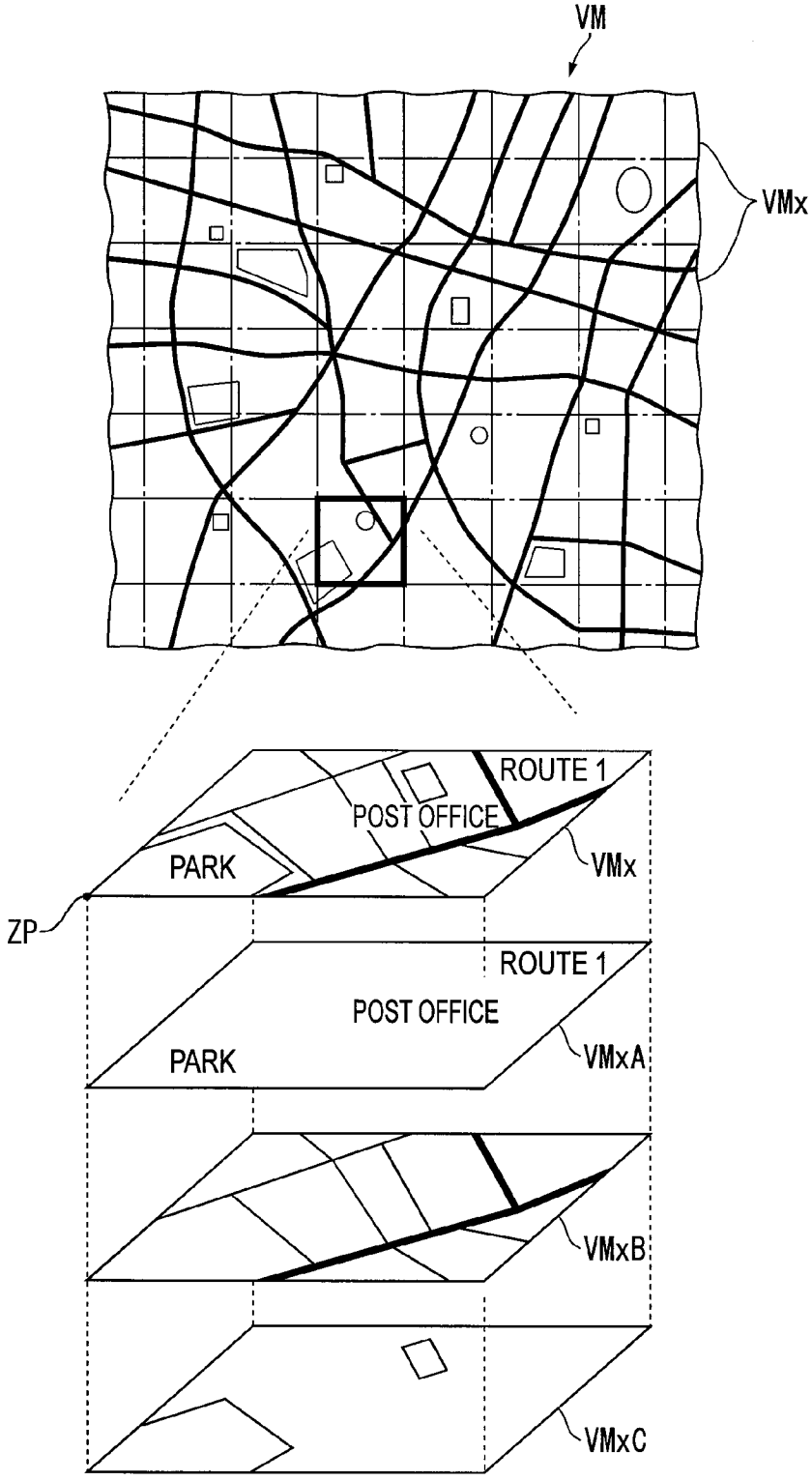

VM
VMx
ROUTE 1
POST OFFICE
PARK
VMx
ZP
ROUTE 1
POST OFFICE
PARK
VMxA
VMxB
VMxC

FIG. 3

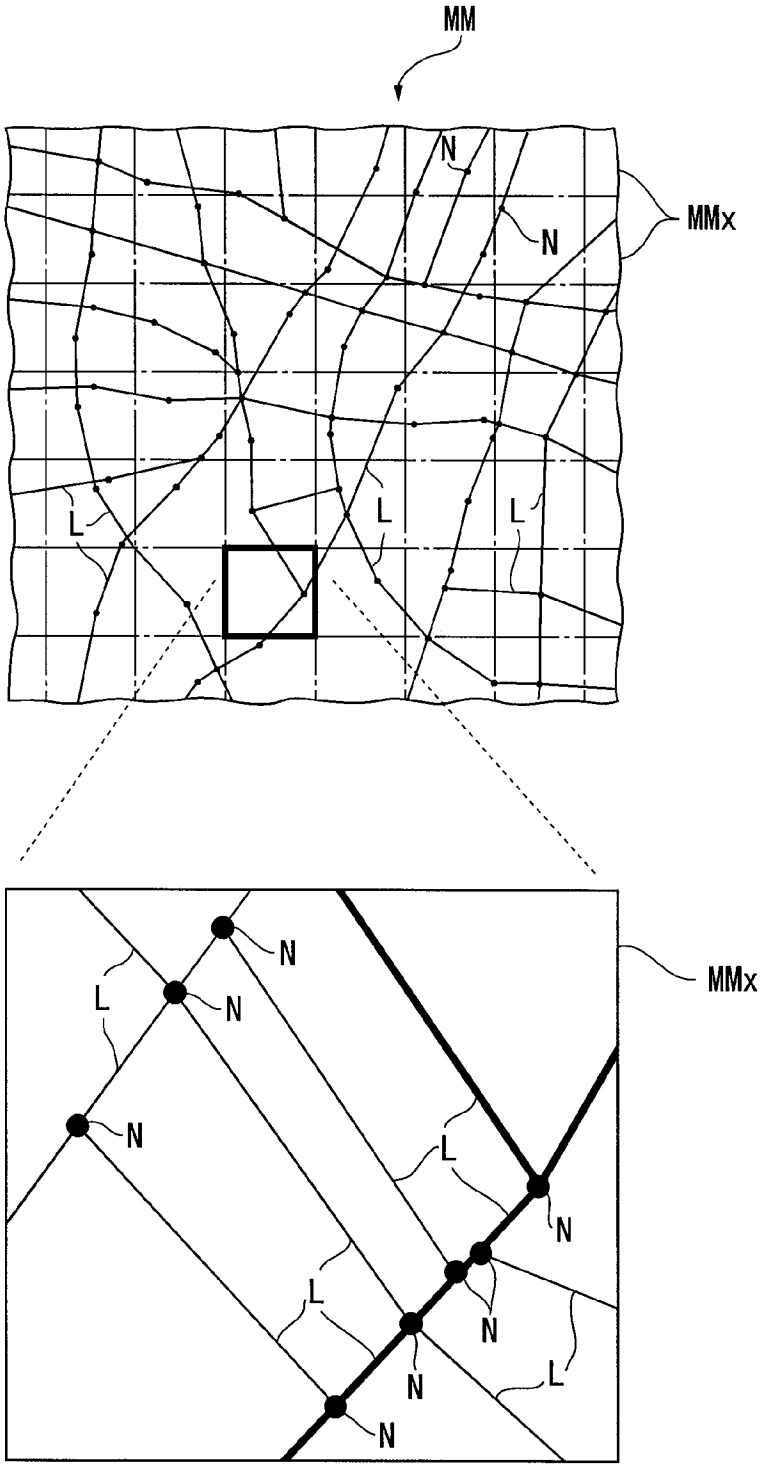


FIG. 4

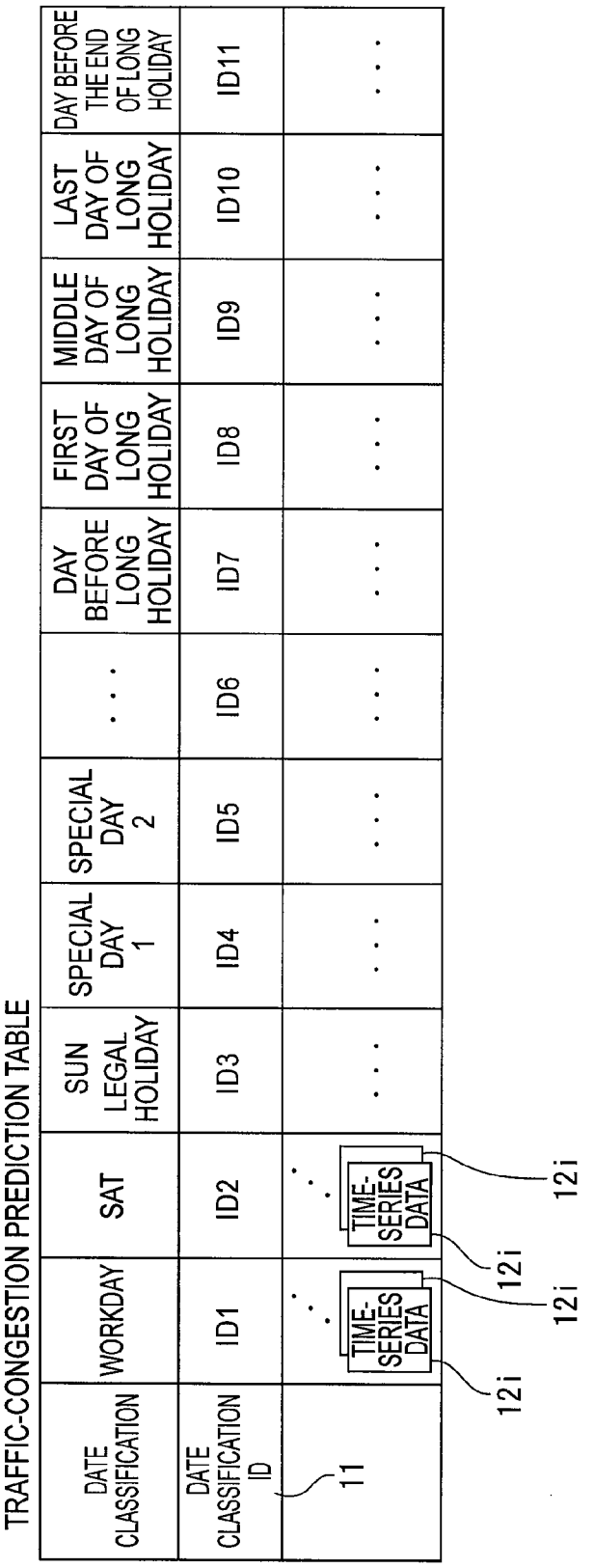

TRAFFIC-CONGESTION PREDICTION TABLE
DATE CLASSIFICATION
DATE CLASSIFICATION ID
WORKDAY
SAT
SUN LEGAL HOLIDAY
SPECIAL DAY 1
SPECIAL DAY 2
. . .
DAY BEFORE LONG HOLIDAY
FIRST DAY OF LONG HOLIDAY
MIDDLE DAY OF LONG HOLIDAY
LAST DAY OF LONG HOLIDAY
DAY BEFORE THE END OF LONG HOLIDAY
11
ID1
ID2
ID3
ID4
ID5
ID6
ID7
ID8
ID9
ID10
ID11
TIME-SERIES DATA
12i
12i
12i
12i

FIG. 5

20

SUN	MON	TUE	WED	THU	FRI	SAT
	1 ID1	2 ID1	3 ID1	4 ID1	5 ID1	6 ID2
7 ID3	8 ID1	. . .	. . .	. . .	. . .	. . .
. . .	. . .	. . .	. . .	. . .	. . .	. . .
. . .	. . .	. . .	. . .	. . .	. . .	. . .
28 ID3	29 ID1	30 ID1	31 ID1			

FIG. 6

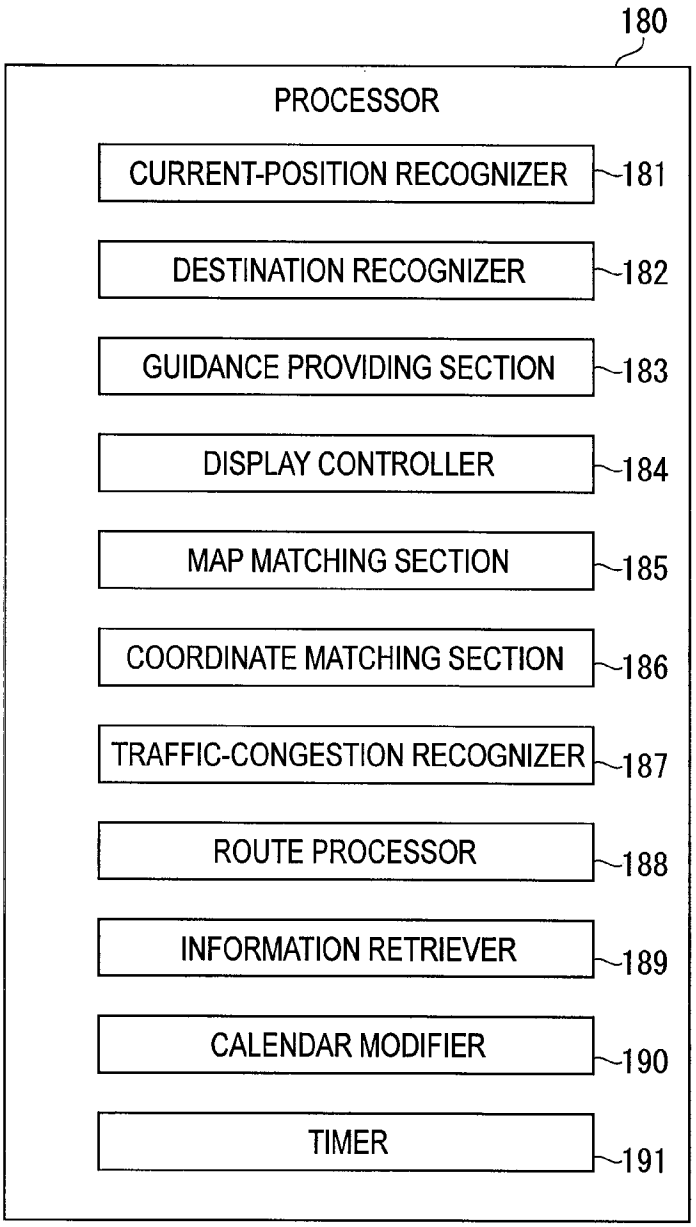

180
PROCESSOR
CURRENT-POSITION RECOGNIZER
181
DESTINATION RECOGNIZER
182
GUIDANCE PROVIDING SECTION
183
DISPLAY CONTROLLER
184
MAP MATCHING SECTION
185
COORDINATE MATCHING SECTION
186
TRAFFIC-CONGESTION RECOGNIZER
187
ROUTE PROCESSOR
188
INFORMATION RETRIEVER
189
CALENDAR MODIFIER
190
TIMER
191

FIG. 7

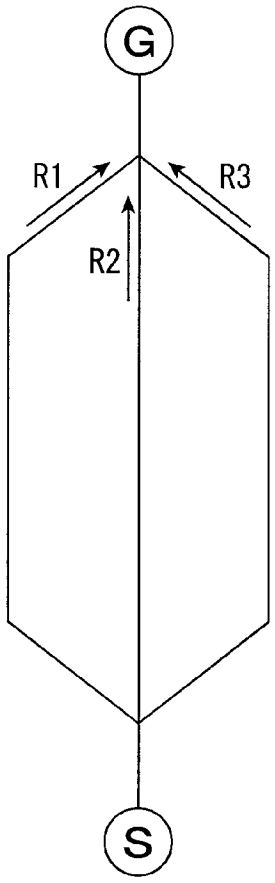


FIG. 8

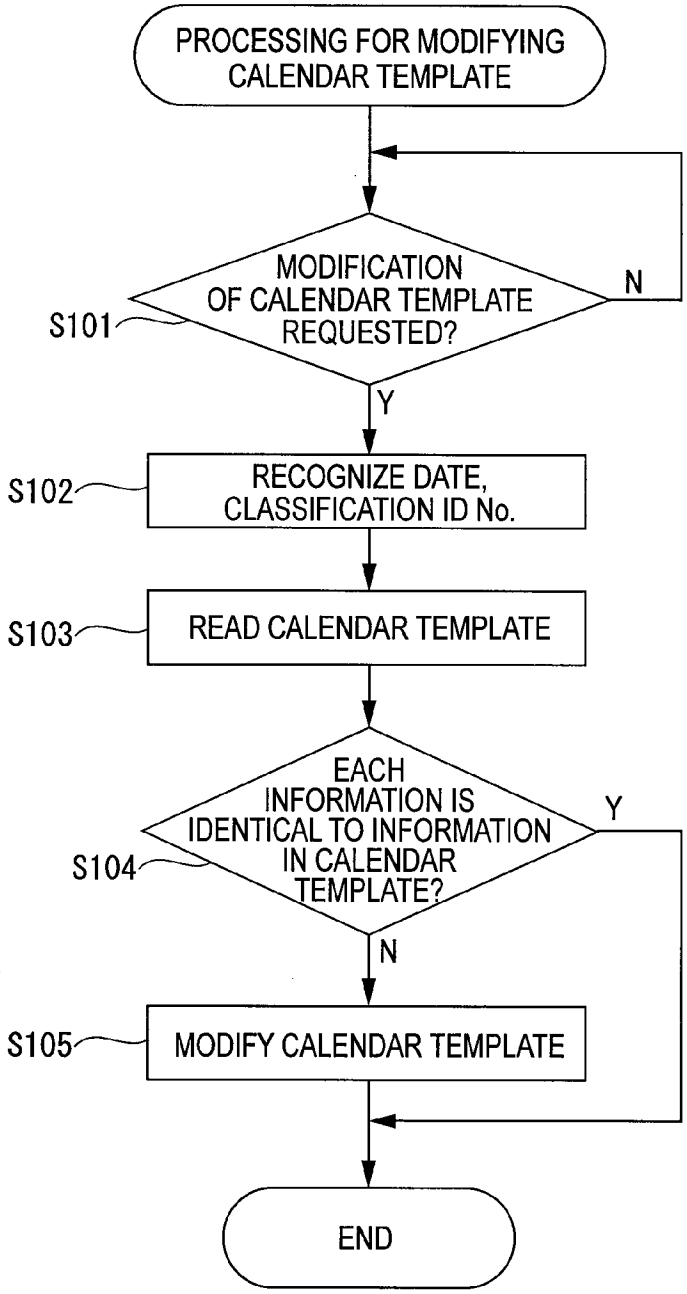

PROCESSING FOR MODIFYING CALENDAR TEMPLATE
MODIFICATION OF CALENDAR TEMPLATE REQUESTED?
S101
N
Y
RECOGNIZE DATE, CLASSIFICATION ID No.
S102
READ CALENDAR TEMPLATE
S103
EACH INFORMATION IS IDENTICAL TO INFORMATION IN CALENDAR TEMPLATE?
S104
Y
N
MODIFY CALENDAR TEMPLATE
S105
END

FIG. 9

SUN	MON	TUE	WED	THU	FRI	SAT
	1 ID1	2 ID1	3 ID1	4 ID1	5 ID4	6 ID2
7 ID3	8 ID1	. . .	. . .	. . .	. . .	. . .
. . .	. . .	. . .	. . .	. . .	. . .	. . .
. . .	. . .	. . .	. . .	. . .	. . .	. . .
28 ID3	29 ID1	30 ID1	31 ID1			

FIG. 10

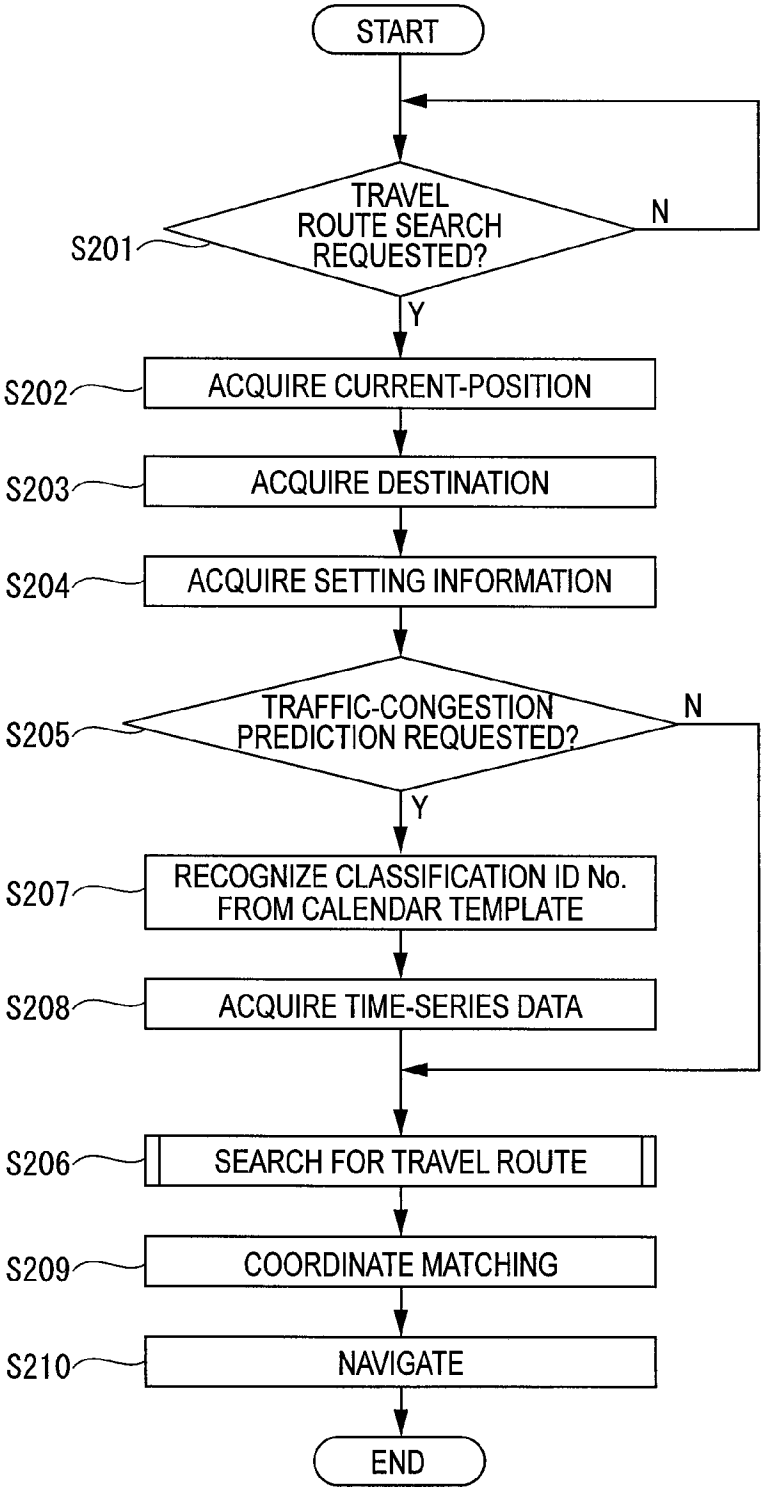

START
TRAVEL ROUTE SEARCH REQUESTED?
S201
N
Y
S202
ACQUIRE CURRENT-POSITION
S203
ACQUIRE DESTINATION
S204
ACQUIRE SETTING INFORMATION
TRAFFIC-CONGESTION PREDICTION REQUESTED?
S205
N
Y
S207
RECOGNIZE CLASSIFICATION ID No. FROM CALENDAR TEMPLATE
S208
ACQUIRE TIME-SERIES DATA
S206
SEARCH FOR TRAVEL ROUTE
S209
COORDINATE MATCHING
S210
NAVIGATE
END

FIG. 11

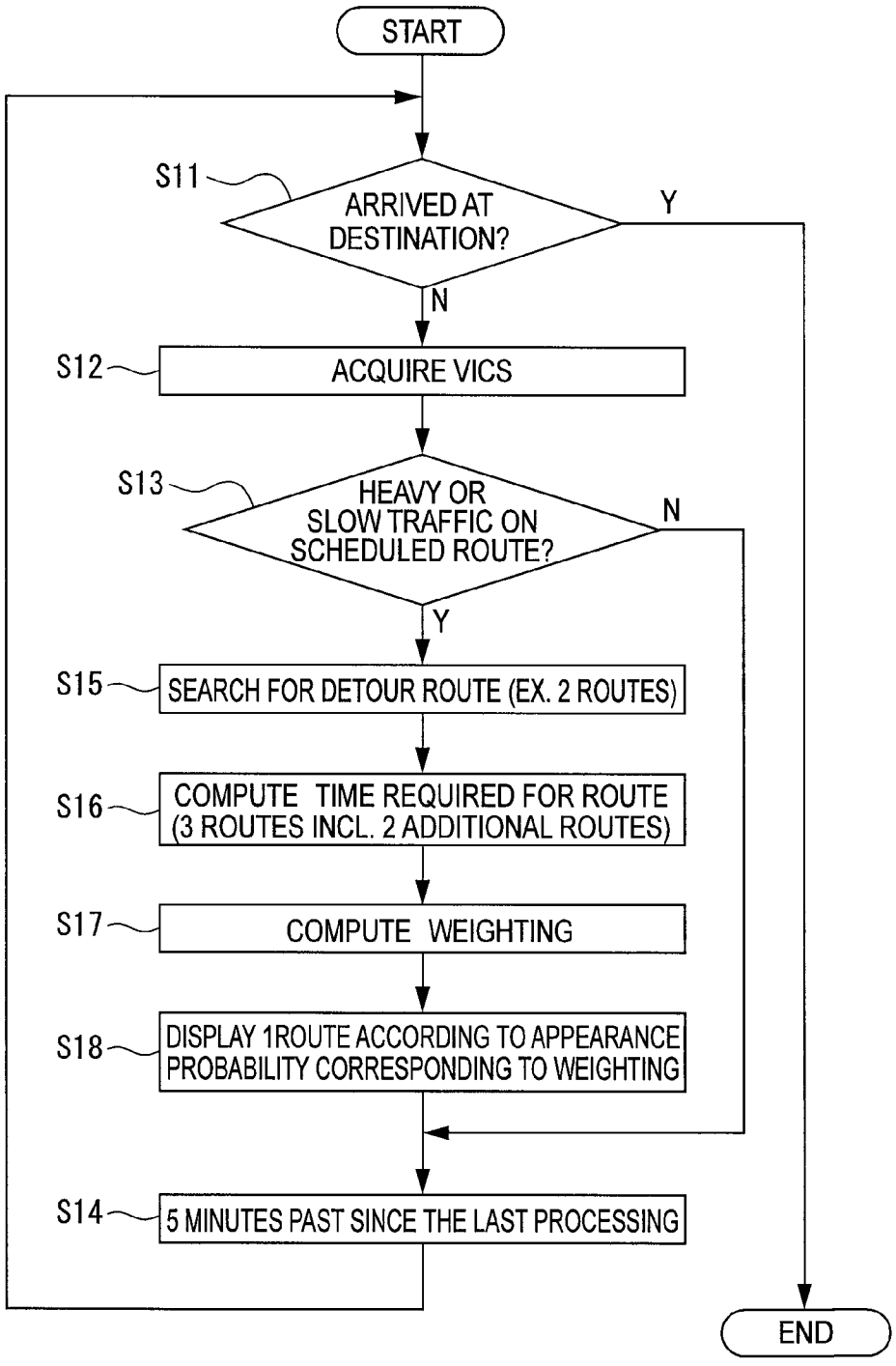

START
S11
ARRIVED AT DESTINATION?
Y
N
S12
ACQUIRE VICS
S13
HEAVY OR SLOW TRAFFIC ON SCHEDULED ROUTE?
N
Y
S15
SEARCH FOR DETOUR ROUTE (EX. 2 ROUTES)
S16
COMPUTE TIME REQUIRED FOR ROUTE (3 ROUTES INCL. 2 ADDITIONAL ROUTES)
S17
COMPUTE WEIGHTING
S18
DISPLAY 1ROUTE ACCORDING TO APPEARANCE PROBABILITY CORRESPONDING TO WEIGHTING
S14
5 MINUTES PAST SINCE THE LAST PROCESSING
END

FIG. 12

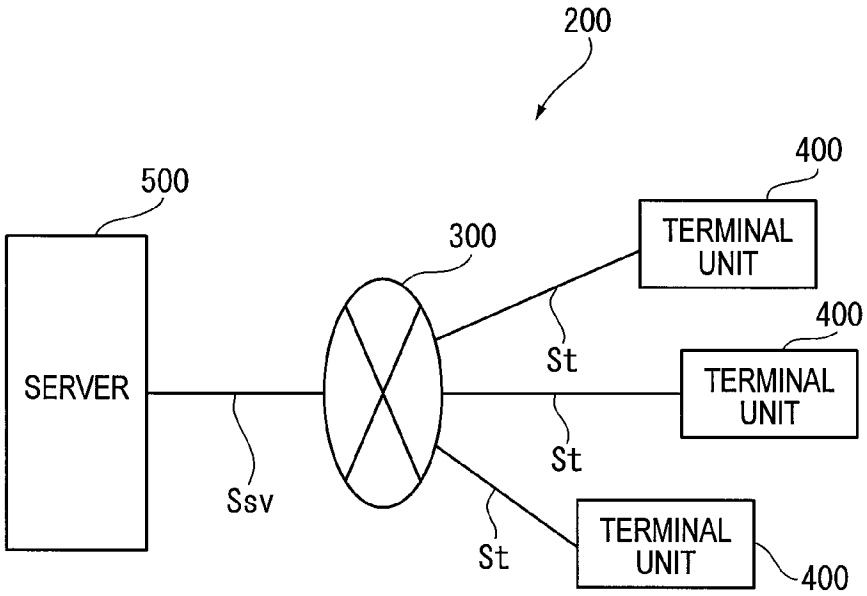

200
500
SERVER
Ssv
300
400
TERMINAL UNIT
St
400
TERMINAL UNIT
St
St
TERMINAL UNIT
400

FIG.13

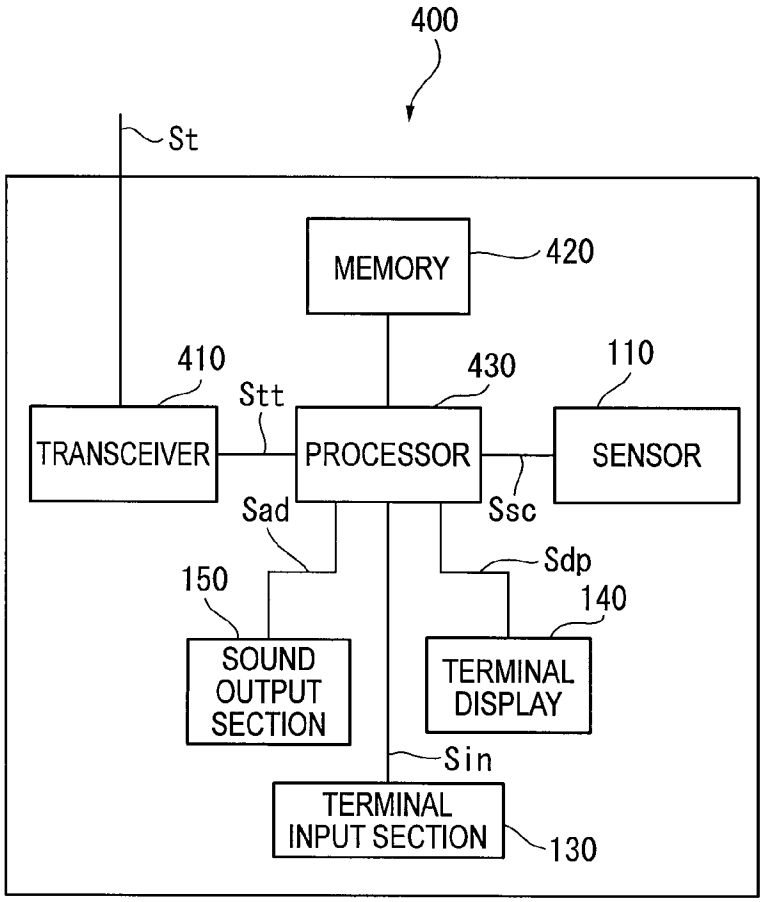

400
St
MEMORY
420
410
Stt
430
110
TRANSCEIVER
PROCESSOR
SENSOR
Sad
Ssc
Sdp
150
140
SOUND OUTPUT SECTION
TERMINAL DISPLAY
Sin
TERMINAL INPUT SECTION
130

FIG. 14

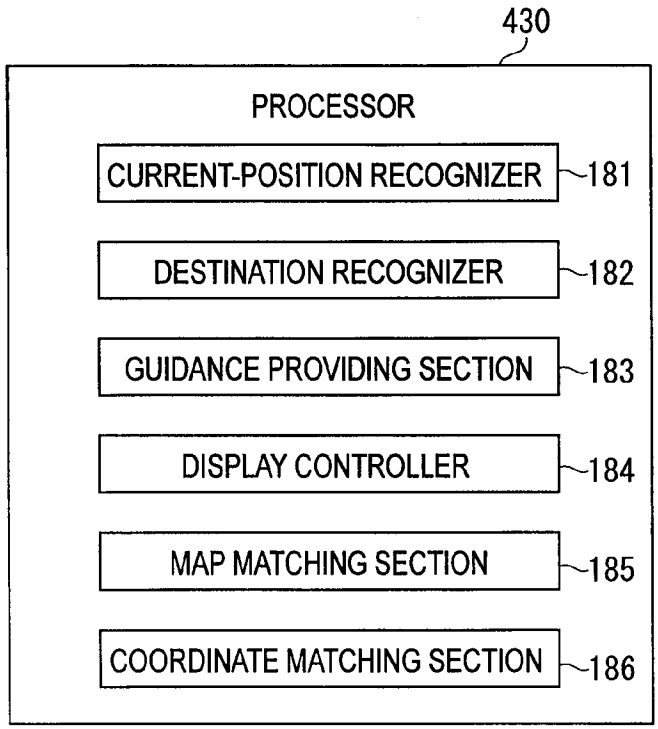

430
PROCESSOR
CURRENT-POSITION RECOGNIZER
181
DESTINATION RECOGNIZER
182
GUIDANCE PROVIDING SECTION
183
DISPLAY CONTROLLER
184
MAP MATCHING SECTION
185
COORDINATE MATCHING SECTION
186

FIG. 15

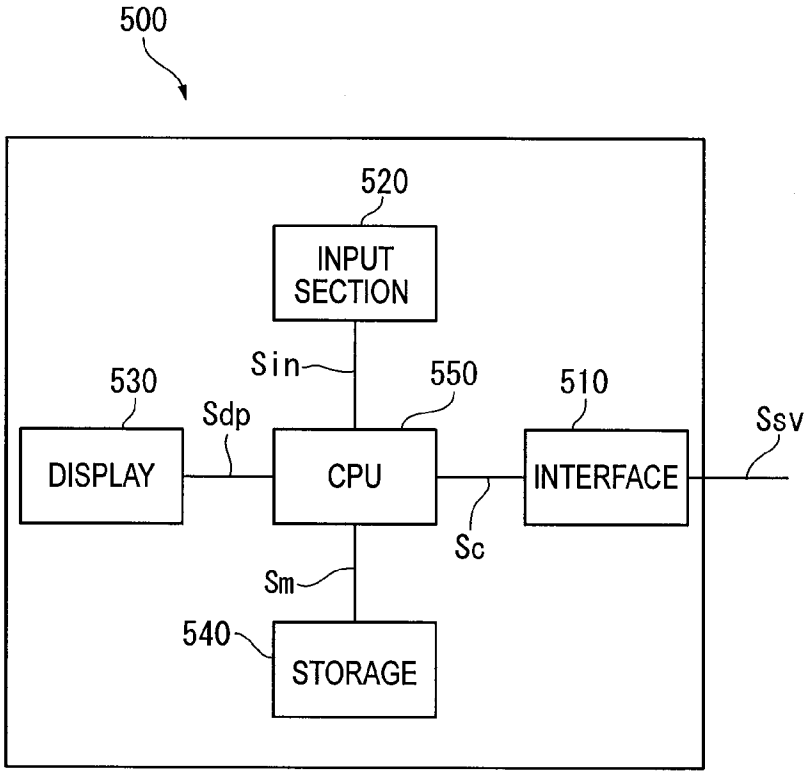

500
520
INPUT SECTION
Sin
530
550
510
Sdp
Ssv
DISPLAY
CPU
INTERFACE
Sc
Sm
540
STORAGE

FIG. 16

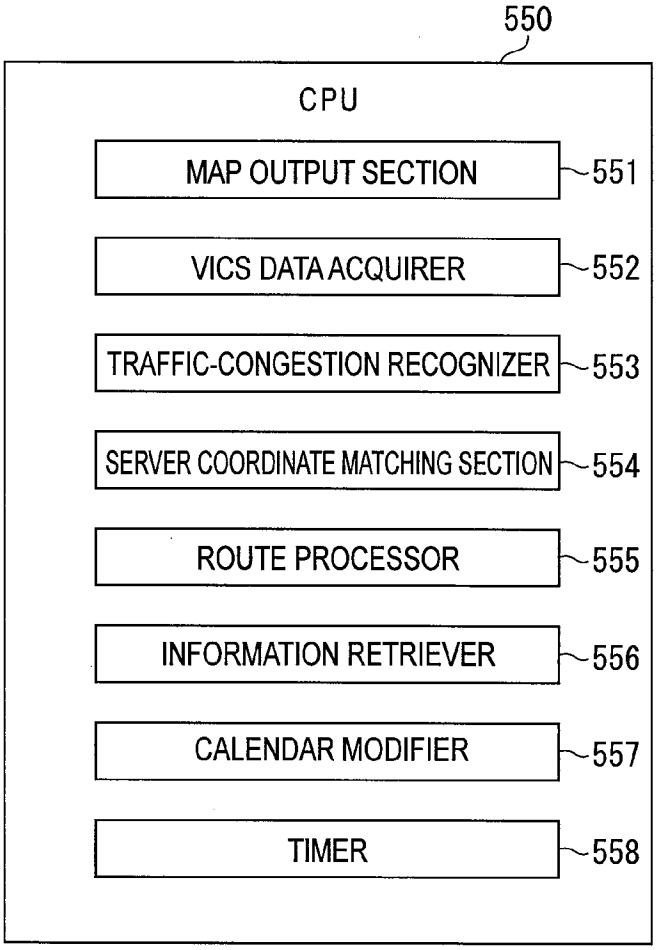

550
CPU
MAP OUTPUT SECTION
551
VICS DATA ACQUIRER
552
TRAFFIC-CONGESTION RECOGNIZER
553
SERVER COORDINATE MATCHING SECTION
554
ROUTE PROCESSOR
555
INFORMATION RETRIEVER
556
CALENDAR MODIFIER
557
TIMER
558

FIG. 17

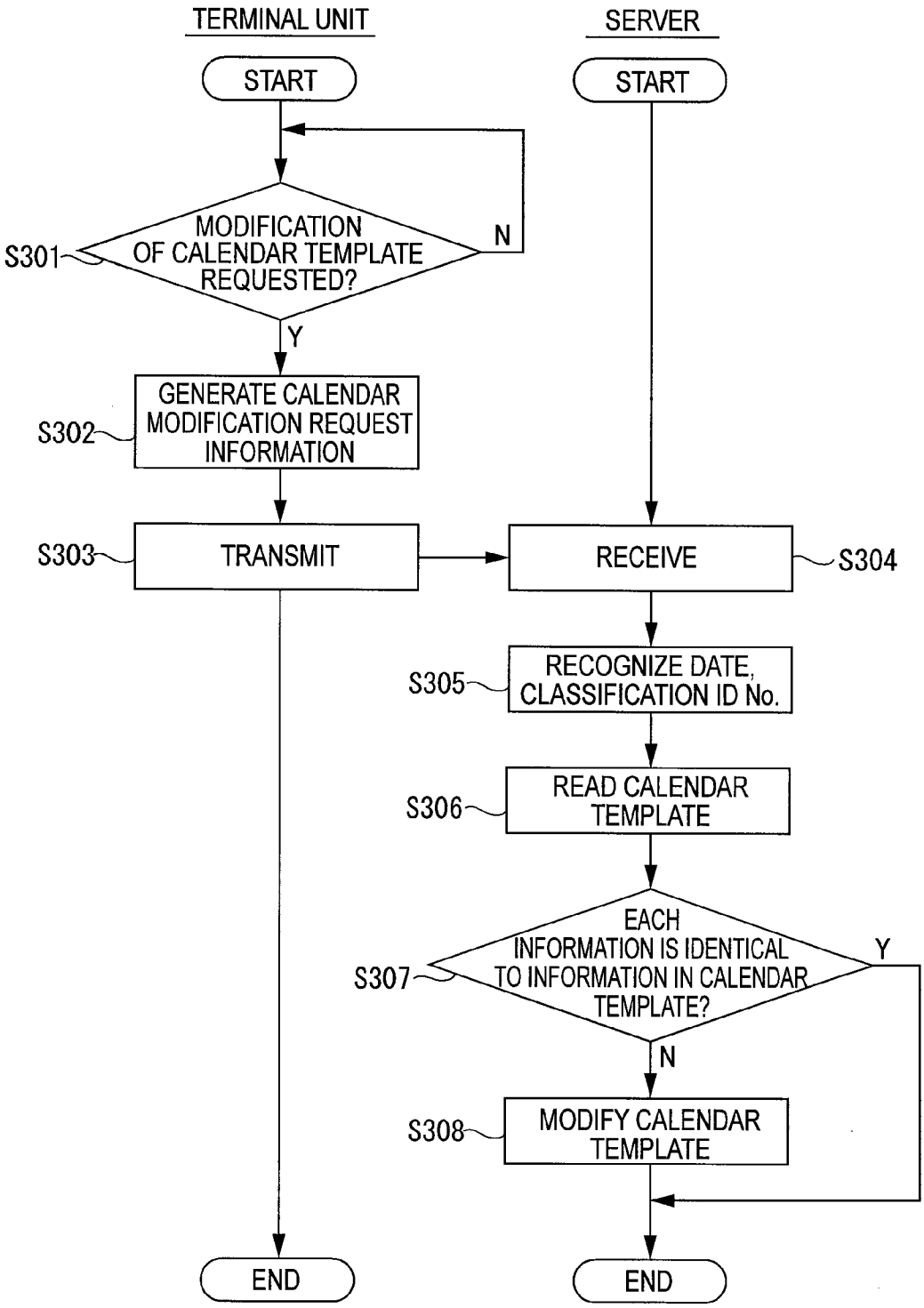
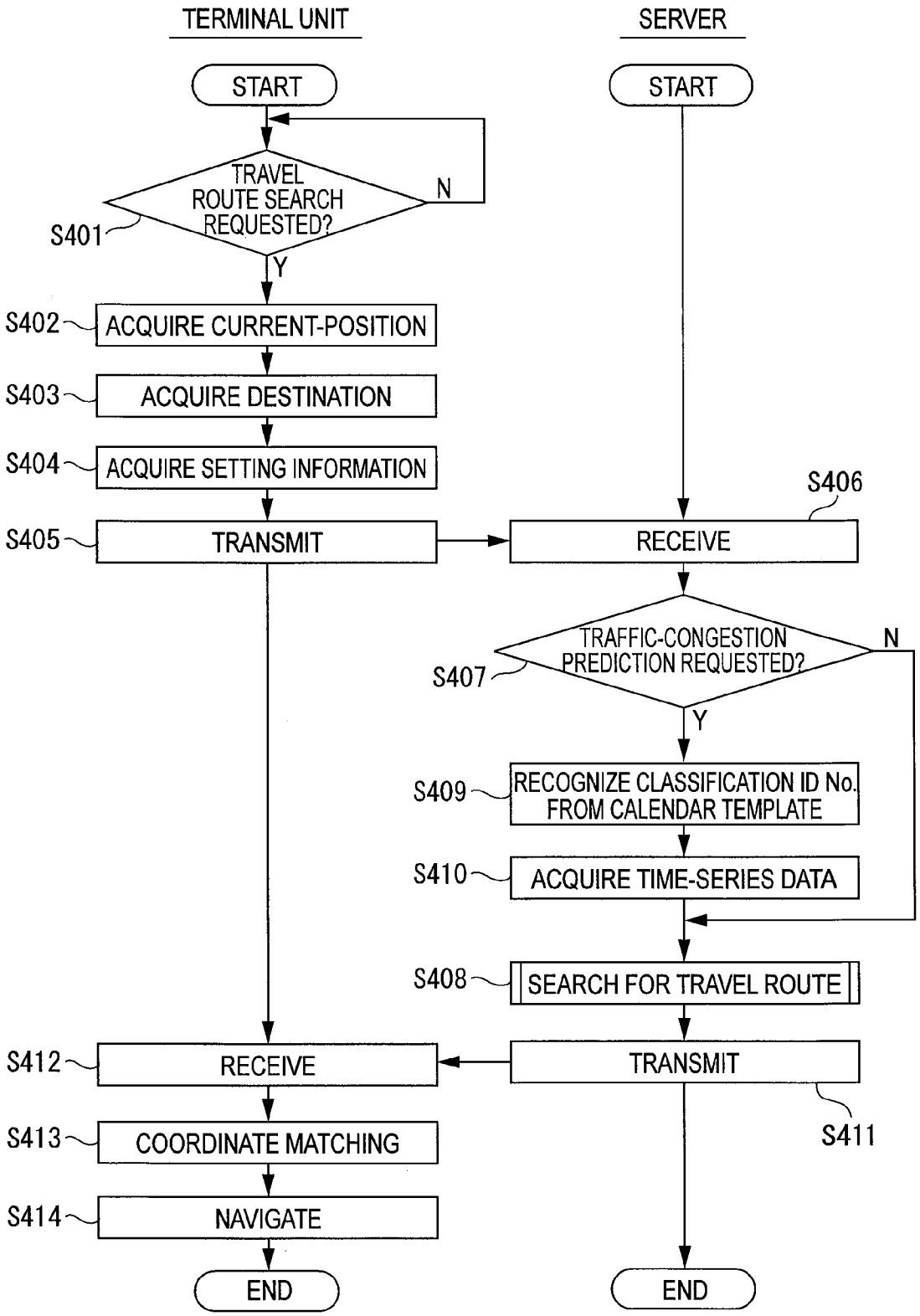

TERMINAL UNIT
SERVER
START
START
MODIFICATION OF CALENDAR TEMPLATE REQUESTED?
S301
N
Y
GENERATE CALENDAR MODIFICATION REQUEST INFORMATION
S302
S303
TRANSMIT
RECEIVE
S304
S305
RECOGNIZE DATE, CLASSIFICATION ID No.
S306
READ CALENDAR TEMPLATE
EACH INFORMATION IS IDENTICAL TO INFORMATION IN CALENDAR TEMPLATE?
S307
Y
N
S308
MODIFY CALENDAR TEMPLATE
END
END

FIG. 18


TERMINAL UNIT
SERVER
START
START
TRAVEL ROUTE SEARCH REQUESTED?
S401
N
Y
S402
ACQUIRE CURRENT-POSITION
S403
ACQUIRE DESTINATION
S404
ACQUIRE SETTING INFORMATION
S405
TRANSMIT
S406
RECEIVE
TRAFFIC-CONGESTION PREDICTION REQUESTED?
S407
N
Y
S409
RECOGNIZE CLASSIFICATION ID No. FROM CALENDAR TEMPLATE
S410
ACQUIRE TIME-SERIES DATA
S408
SEARCH FOR TRAVEL ROUTE
S412
RECEIVE
TRANSMIT
S411
S413
COORDINATE MATCHING
S414
NAVIGATE
END
END